

ABSTRACT

Method for treating unpackaged biological liquids, particularly milk or its derivatives, having a microbacterial and spore content, comprising the following operative steps: a) separating the biological liquid into a fatty fraction having a higher concentration of fatty matter and a non-fatty fraction having a lower concentration of fatty matter compared to the initial concentration; b) heat treating the non-fatty fraction; c) cooling the non-fatty fraction to a temperature close to the storage temperature (**T_c**); d) preheating the fatty fraction to a predefined temperature (**T_s**); irradiating the fatty fraction with electromagnetic radiation for a predefined time (t_{irr}); f) cooling the fatty fraction to a temperature close to the storage temperature (**T_c**); g) mixing the individually treated fractions so as to reconstitute said biological liquid. The electromagnetic radiation is in the range of radio-frequencies having frequencies of less than 1 GHz.